

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 30, 2019
Hours:	19:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks			
1	1020MW THP	Unit- I	89.93	400kV THP - Siliguri Fdr- I	57.50	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown			
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	55.02	+				
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00					
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	121.68	+				
		Unit- V	149.08	400kV Malbase - Siliguri	36.00	+				
		Unit- VI	0.00	-	-	-				
		Total	239.01	Error at Station/Auxiliary Consumption/Losses	4.81					
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit- I & III under maintenance. Unit-IV under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-IV at Standby.			
		Unit-II	100.00	400kV MHP - Jigmeling Fdr - II	0.00	+				
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	99.50	+				
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00					
		-	-	200MVA, 400/132kV ICT						
		-	-	(Local Load)						
		Total	100.00	Error at Station/Auxiliary Consumption/Losses	0.50					
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-Bir I Standby			
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-7.01	-				
		Unit- III	62.00	220kV CHP - Malbase Fdr- III	43.16	+				
		Unit- IV	62.00	220kV CHP - Sementokha Fdr- IV	64.14	+				
		-	-	220kV Malbase - Birpara Fdr.	-48.00	-				
		-	-	66kV CHP - Chumdo Fdr.	17.82	+				
		-	-	66kV CHP - Gedu Fdr.	4.70	+				
Total	124.00	Error at Station/Auxiliary Consumption/Losses	-0.72							
3	24MW BHP (U/S)	Unit- I	7.04	220kV BHP - Sementokha Fdr.	7.98	+	U/S Unit-II under maintenace. L/S Unit-I at standby.			
		Unit- II	0.00	66kV BHP - Lobeyasa Fdr.	19.16	+				
		Total	7.04	220kV BHP - Tsirang Fdr.	-6.63	-				
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.15	+				
		Unit- II	14.44	30MVA ICT, 220/66kV						
Total	14.44	Error at Station/Auxiliary Consumption/Losses	0.18							
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.95	+	Unit I at Standby.			
		Unit-II	22.19	220kV Jigmeling - Dagapela Fdr.						
		-	-	5MVA, 220/33kV TFR						
		Total	22.19	Error at Station/Auxiliary Consumption/Losses	0.24					
		5	60MW KHP	Unit- I	15.00	132kV KHP - Nangkhoh Fdr- I		5.18	+	Unit-II under standby. Unit-III Annual Maintenance. Unit IV shutdown.
				Unit-II	0.00	132kV KHP - Kilikhar Fdr- II		8.93	+	
Unit- III	0.00			5MVA, 132/11kV TFR	0.74	+				
Unit- IV	0.00			132kV Gelephu - Salakati Fdr.	-26.20	-				
-	-			132kV Motanga - Rangia Fdr.	-16.37	-				
Total	15.00	Error at Station/Auxiliary Consumption/Losses	0.15							

Note: Load summary on December 30, 2019 at 19:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load [Generation - Export (MW)]	Total Load [Feeder Summation (MW)]	Total Export/Import	Load Balance
1	Western Grid	406.68	302.17	298.02	93.51	4.15
2	Eastern Grid	115.00	69.07	68.42	56.93	0.65
	Total	521.68	371.24	366.44	150.44	4.80

Note: Load Summary on December 30, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	282.35	290.65	319.28
2	Eastern Grid	59.98	62.66	71.32
	National	342.33	353.31	390.60

NOTES:

- The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
 - The clocks of all the locations are not synchronized.
- This report is generated to give an idea of the generation & load flow for the system at a particular instant.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 31, 2019
Hours:	09:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	89.49	400kV THP - Siliguri Fdr- I	33.44	+	Unit- III & IV at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	32.11	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	99.50	+	
		Unit- V	80.26	400kV Malbase - Siliguri	37.23	+	
		Unit- VI	0.00	-	-	-	
		Total	169.75	Error at Station/Auxiliary Consumption/Losses	4.70		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit-I standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	114.80	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	114.70	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	114.80	Error at Station/Auxiliary Consumption/Losses	0.10		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdownn. 220kV CHP-BIR I standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-17.00	-	
		Unit- III	38.00	220kV CHP - Malbase Fdr- III	36.00	+	
		Unit- IV	37.00	220kV CHP - Sementokha Fdr- IV	37.90	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.25	-	
		-	-	66kV CHP - Chumdo Fdr.	13.60	+	
		-	-	66kV CHP - Gedu Fdr.	4.10	+	
Total	75.00	Error at Station/Auxiliary Consumption/Losses	-0.96				
4	24MW BHP (U/S)	Unit- I	6.70	220kV BHP - Sementokha Fdr.	21.73	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeyasa Fdr.	16.62	+	
		Total	6.70	220kV BHP - Tsirang Fdr.	-18.68	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	13.60	30MVA ICT, 220/66kV			
Total	13.60	Error at Station/Auxiliary Consumption/Losses	-0.09				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.20	+	Unit-I at Standby
		Unit-II	22.45	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	22.45	Error at Station/Auxiliary Consumption/Losses	0.25		
6	60MW KHP	Unit- I	12.43	132kV KHP - Nangkhor Fdr- I	17.63	+	Unit-IV under shutdown. Unit- Unit-III Standby.
		Unit-II	10.00	132kV KHP - Kilikhar Fdr- II	3.64	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-20.80	-	
		-	-	132kV Motanga - Rangia Fdr.	-9.27	-	
		-	-	220kV Tsirang - Jigmeling	0.08	+	
		Total	22.43	Error at Station/Auxiliary Consumption/Losses	0.76		

Note: Load summary on December 31, 2019 at 09:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load [Generation - Export (MW)]	Total Load [Feeder Summation (MW)]	Total Export/Import	Load Balance
1	Western Grid	287.50	239.89	235.99	47.53	3.90
2	Eastern Grid	137.23	52.68	51.82	84.63	0.86
	Total	424.73	292.57	287.81	132.16	4.76

Note: Load Summary on December 31, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	276.88	302.32	319.28
2	Eastern Grid	48.86	65.75	71.32
	National	325.74	368.07	390.60

NOTES:

- The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
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